

SYM flow equation in N=1 SUSY

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In this talk, we show that the gradient flow equation is defined in $calN = 1$ SYM in a way that is consistent with supersymmetry in the Wess-Zumino gauge. Using the perturbation theory, we find that two-point function of flowed gauge multiplet is UV-finite at the one-loop level when four dimensional SYM is renormalized.

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